

COMPUTATIONAL STORAGE: UNLEASH DATA-DRIVEN APPLICATION PERFORMANCE



RESPONSIVE PERFORMANCE

- Best-in-class turnkey application performance
- TLC NVMe SSD-level performance on Sequential and Random workloads



AFFORDABLE SCALING

- Scale application performance with storage capacity
- Optimize utilization of CPU, memory, network & storage infrastructure



AGILE PLATFORM

- Add new features and re-program Compute Engines in-system, future-proofing infrastructure
- Reduce time-to-deploy for new functions

ScaleFlux[®] Computational Storage Subsystem (CSS) 1000 Series

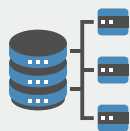
Form Factor	- PCIe AIC & U.2 Drive
Flash Capacity	- 1.6, 1.92, 3.2, 3.84, 6.4, 7.68TB
Interface	- PCIe Gen3 x4
Compute Engines	- GZIP Compression, Erasure Coding, Flexible KV-Store Interface, Customizable Database Engine Accelerator
Tunable FTL/FM	- Adjust drive parameters to fine-tune performance
Atomic Write	- Guarantee a single, complete write operation for up to 1MB I/Os to avoid double-write buffer penalties to performance & endurance
Namespace Streams	- Separate resource pools for each Stream of data to eliminate unnecessary Garbage Collection and improve Quality of Service
Temp & Power Throttle	- Avoid overheating and comply with slot power limitations
Data Protection	- End-to-end data protection and ECC (Error Correction Code) on all internal memories in the data path; Integrated LDPC engine and Flash die RAID assures 10 ⁻²⁰ UBER
Power Loss Protection	- Complete data protection from unplanned power loss
In-Place Updates	- Evolve your infrastructure with new applications through in-system programmability of CSS hardware, just like with software



ScaleFlux CSS 1000 seamlessly integrates the high performance of a **TLC NVMe SSD** with **Compute Engines** into a single device – opening both compute and storage I/O bottlenecks to deliver increased TPS and reduced application run-times.

Hyperscale - Webscale - Enterprise

USE CASES



Database



Big Data




IoT Edge



AI and
Machine Learning



Content Delivery

Schedule a proof of concept today.  info@scaleflux.com